



U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MICRU 66414	SERIAL NO. 10/731,634			
INFORMATION DISCLOSURE CITATION (Use Several Sheets If Necessary)		APPLICANT DANIEL R. KURZ				
		FILING DATE Dec. 8, 2003	GROUP 3731			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
m	3,868,956	MARCH 4, 1975	ALFIDI ET AL.			
	4,494,531	JANUARY 22, 1985	GIAN TURCO			
	4,512,338	APRIL 23, 1985	BALKO ET AL.			
	4,748,986	JUNE 7, 1988	MORRISON ET AL.			
	4,994,069	FEBRUARY 19, 1991	RITCHART ET AL.			
	5,026,377	JUNE 25, 1991	BURTON ET AL.			
	5,108,407	APRIL 28, 1992	GEREMIA ET AL.			
	5,122,136	JUNE 16, 1992	GUGLIELMI ET AL.			
	5,217,484	JUNE 8, 1993	MARKS			
	5,228,453	JULY 20, 1993	SEPETKA			
m	5,250,071	OCTOBER 5, 1993	PALERMO			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
m	DE 4102550 A1	08/08/1991	GERMANY			
	UK 2 066 839 A	15 JULY 1981	UNITED KINGDOM			
	EP 0 183372 A1	04.06.86	EUROPE			
	EP 0 382014 A1	16.08.90	EUROPE			
	592.182	28 JULY, 1925	FRANCE			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
REFERENCES	CHRISTOS A. ATHANASOULIS, M.D. THE NEW ENGLAND JOURNAL OF MEDICINE, MAY 15, 1980 "THERAPEUTIC APPLICATIONS OF ANGIOGRAPHY" PAGES 1117 - 1125 (1 OF 2)					
	CHRISTOS A. ATHANASOULIS, M.D. THE NEW ENGLAND JOURNAL OF MEDICINE, MAY 22, 1980 "THERAPEUTIC APPLICATIONS OF ANGIOGRAPHY" PAGES 1174 - 1179 (2 OF 2)					
	ALEX BERENSTEIN, M.D. AND IRVIN I. KRICHEFF, M.D. "CATHETER AND MATERIAL SELECTION FOR TRANSARTERIAL EMBOLIZATION: TECHNICAL CONSIDERATIONS" RADIOLOGY, SEPTEMBER 1979; PAGES 631 - 639.					
	O.A. BATTISTA, ET AL. JOURNAL OF APPLIED POLYMER SCIENCE 1967 "COLLOIDAL MACROMOLECULAR PHENOMENA. PART II. NOVEL MICROCRYSTALS OF POLYMERS" PAGES 481 - 498.					
EXAMINER	m			DATE CONSIDERED 8/22/03		
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.						

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(also form PTO-1449)

Sheet 2 of 10

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. MICRU 66414		SERIAL NO. 10/731,631	
INFORMATION DISCLOSURE CITATION <small>(Use Several Sheets If Necessary)</small>				APPLICANT DANIEL R. KURZ			
FILING DATE Dec - 8 - 2003				GROUP 3731			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE	
	5,336,205	AUGUST 9, 1994	ZENZEN ET AL.				
	5,350,397	SEPTEMBER 27, 1994	PALERMO ET AL.				
	5,354,295	OCTOBER 11, 1994	GUGLIELMI ET AL.				
	5,312,415	MAY 17, 1994	PALERMO				
	5,639,277	JUNE 17, 1997	MARIANT ET AL.				
	5,649,949	JULY 22, 1997	WALLACE ET AL.				
	5,222,969	JUNE 29, 1993	GILLIS				
	5,607,445	MARCH 4, 1997	SUMMERS				
	5,667,522	SEPTEMBER 16, 1997	FLOMENBLIT ET AL.				
	5,514,176	MAY 7, 1996	BOSLEY, JR.				
	5,582,619	DECEMBER 10, 1996	KEN				

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
REFERENCES	<p>SADEK K. HILAL, M.D. ET AL. JOURNAL OF NEUROLOGICAL SURGERY "THERAPEUTIC PERCUTANEOUS EMBOLIZATION FOR EXTRA-AXIAL VASCULAR LESIONS OF THE HEAD, NECK AND SPINE" SEPTEMBER, 1975; PAGES 275 - 287.</p> <p>STEPHEN L. KAUFMAN, M.D. ET AL. INVESTIGATIVE RADIOLOGY, MAY-JUNE 1978 "TRANSCATHETER EMBOLIZATION WITH MICROFIBRILLAR COLLAGEN IN SWINE"; PAGES 200-204</p> <p>ASHOK J. KUMAR, ET AL., JOURNAL OF NEURORADIOLOGY (1982) "PREOPERATIVE EMBOLIZATION OF HYPERVASCULAR HEAD AND NECK NEOPLASMS USING MICROFIBRILLAR COLLAGEN", PAGES 163 - 168.</p> <p>RICHARD E. LATCHAW, M.D. ET AL., RADIOLOGY (1979) "POLYVINYL FOAM EMBOLIZATION OF VASCULAR AND NEOPLASTIC LESIONS OF THE HEAD, NECK AND SPINE" PAGES 669 - 679.</p> <p>STEWART R. REUTER, M.D. ET AL. AMERICAN JOURNAL OF RADIOLOGY, SEPTEMBER 1975 "SELECTIVE ARTERIAL EMBOLIZATION FOR CONTROL OF MASSIVE UPPER GASTROINTESTINAL BLEEDING" PAGES 119 - 126.</p>

EXAMINER 	DATE CONSIDERED 5/22/05
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EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

Sheet 3 of 10

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
<i>m</i> <i>mo</i>	5,562,641	OCTOBER 8, 1996	FLOMENBLIT ET AL.			
	5,549,624	AUGUST 27, 1996	MIRIGIAN ET AL.			
	5,226,911	JULY 13, 1993	CHEE ET AL.			
	5,690,666	NOVEMBER 25, 1997	BERENSTEIN ET AL.			
	5,522,836	JUNE 4, 1996	PALERMO			
	5,569,245	OCTOBER 29, 1996	GUGLIELMI ET AL.			
	4,768,507	SEPTEMBER 6, 1988	FISCHELL ET AL.			
	4,795,458	JANUARY 3, 1989	REGAN			
	4,800,882	JANUARY 31, 1989	GIAN TURCO			
		4,813,925	MARCH 21, 1989	ANDERSON, JR. ET AL.		

FOREIGN PATENT DOCUMENTS						
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
ARTICLES	GLENN H. ROBERSON, ET AL., AMERICAN JOURNAL OF RADIOLOGY, OCTOBER 1979 "THERAPEUTIC EMBOLIZATION OF JUVENILE ANGIOFIBROMA" PAGES 657-663 SIDNEY WALLACE, M.D. ET AL., CANCER, OCTOBER 1979 "ARTERIAL OCCLUSION OF PELVIC BONE TUMORS"; PAGES 322-325 & 661-663 "MECHANICAL DEVICES FOR ARTERIAL OCCLUSION" BY C. GIAN TURCO, M.D., ET AL., JULY 1975 PAGES 428-435 "THERAPEUTIC VASCULAR OCCLUSION UTILIZING STEEL COIL TECHNIQUE: CLINICAL APPLICATIONS" BY SIDNEY WALLACE, ET AL., AM J. ROENTGENOL (1976); PAGES 381-387 "TRANSCATHETER INTRAVASCULAR COIL OCCLUSION OF EXPERIMENTAL ARTERIOVENOUS FISTULAS". BY JAMES H. ANDERSON, ET AL., AM. J. ROENTGENOL, NOVEMBER 1977, PAGES 795-798.

EXAMINER <i>Wesley L. Cho</i>	DATE CONSIDERED <i>8/22/05</i>
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL ASS	SUB CLASS	FILING DATE IF APPLICABLE	
	4,856,516	AUGUST 15, 1989	HILLSTEAD				
	4,957,479	SEPTEMBER 18, 1990	ROEMER				
	4,990,155	FEBRUARY 5, 1991	WILKOFF				
	5,041,084	AUGUST 20, 1991	DeVRIES ET AL.				
	5,133,732	JULY 28, 1992	WIKTOR				
	5,141,502	AUGUST 25, 1992	MACALUSO, JR.				
	5,147,370	SEPTEMBER 15, 1992	McNAMARA ET AL.				
	5,160,341	NOVEMBER 3, 1992	BRENNEMAN ET AL.				
	5,176,625	JANUARY 5, 1993	BRISSON				
	5,183,085	FEBRUARY 2, 1993	TIMMERMANS				
	5,690,643	NOVEMBER 25, 1997	WIJAY				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CL ASS	SUB CLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
ARTICLES	" 'MINI' GIANTURCO STAINLESS STEEL COILS FOR TRANSCATHETER VASCULAR OCCLUSION" BY JAMES H. ANDERSON, ET AL., FROM THE DEPARTMENT OF DIAGNOSTIC RADIOLOGY AT THE UNIVERSITY OF TEXAS SYSTEM CANCER CENTER, AUGUST 1978, PAGES 301 - 303.						
	"A NEW IMPROVED COIL FOR TAPERED-TIP CATHETER FOR ARTERIAL OCCLUSION" BY VINCENT P. CHUANG, M.D., ET AL., MAY 1980, PAGES 507 - 509						
EXAMINER				DATE CONSIDERED 8/22/05			
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INFORMATION DISCLOSURE CITATION <small>(Use Several Sheets If Necessary)</small>				APPLICANT DANIEL R. KURZ			
				FILING DATE Dec. 8, 2003		GROUP 3731	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL. ASS.	SUB. CLASS.	FILING DATE IF APPLICABLE	
<i>DA</i> 	5,624,461	APRIL 29, 1997	MARIANT				
	5,637,113	JUNE 10, 1997	TARTAGLIA ET AL.				
	5,690,671	NOVEMBER 1997	McGURK ET AL.				
	5,643,254	JULY 1, 1997	SCHELDROP ET AL.				
	5,676,697	OCTOBER 14, 1997	McDONALD				
	5,234,456	AUGUST 10, 1993	SILVESTRI				
	5,304,194	APRIL 19, 1994	CHEE ET AL.				
	5,342,387	AUGUST 30, 1994	SUMMERS				
	5,382,259	JANUARY 17, 1995	PHELPS ET AL.				
	5,441,516	AUGUST 15, 1995	WANG ET AL.				
<i>DA</i>	5,443,478	AUGUST 22, 1995	PURDY				

FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CL. ASS.	SUB. CLASS.	TRANSLATION		
					YES	NO	

EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
<i>DA</i> 	RETRIEVABLE GIANTURCO-COIL INTRODUCER, By Jeffrey Hawkins, Ronald G. Quisling, MD, J. Parker Mickle, MD and Irvin F. Hawkins, MD (Radiology 1986) from the Depts. of Radiology and Neurosurgery, University of Florida Medical Center and Hawk Prototype Equipment, Gainesville, FL.
EXAMINER	DATE CONSIDERED <i>8/22/05</i>

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL ASS	SUB CLASS	FILING DATE IF APPLICABLE	
	4,820,298	APRIL 11, 1989	LEVEEN ET AL.				
	4,850,960	JULY 25, 1989	GRAYZEL				
	4,954,126	SEPTEMBER 4, 1990	WALLSTEN				
	4,957,501	SEPTEMBER 18, 1990	LAHILLE ET AL.				
	5,064,435	NOVEMBER 12, 1991	PORTER				
	5,104,404	APRIL 14, 1992	WOLFF				
	5,133,731	JULY 28, 1992	BUTLER ET AL.				
	5,151,105	SEPTEMBER 29, 1992	KWAN-GETT				
	5,176,661	JANUARY 5, 1993	EVARD ET AL.				
	5,186,992	FEBRUARY 16, 1993	KITE, III				
	5,203,772	APRIL 20, 1993	HAMMERSLAG ET AL.				

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CL ASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		

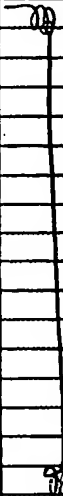
EXAMINER 	DATE CONSIDERED 8/24/05
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				FILING DATE Dec. 8, 2003		GROUP 3731	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE	
<i>JD</i>	5,578,074	NOVEMBER 26, 1996	MIRIGIAN				
	5,800,455	SEPTEMBER 1, 1998	PALERMO ET AL.				
	5,746,769	MAY 5, 1998	TON ET AL.				
	5,725,546	MARCH 10, 1998	SAMSON				
	5,718,711	FEBRUARY 17, 1998	BERENSTEIN ET AL.				
	5,749,894	MAY 12, 1998	ENGELSON				
	5,807,398	SEPTEMBER 15, 1998	SHAKNOVICH				
	5,814,062	SEPTEMBER 29, 1998	SEPTKA ET AL.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER			DATE CONSIDERED				
<i>Rayenlebo</i>			<i>8/22/05</i>				
EXAMINER Initial if reference considered, whether or not claim is in conformity with MPEP 609. Draw line through citation if not in conformity and not considered. Include copy of this form with next communication with applicant.							

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known	
	Application Number	10/731,631		
	Filing Date	December 8, 2003		
	First Named Inventor	Daniel R. Kurz		
	Art Unit	3731		
	Examiner Name	Uyen T. Ho.		
	Attorney Docket Number	MICRU 66414		
Sheet	9	of	10	

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
		US-	4,327,734	05-04-1982	White, Jr.	
		US-	4,402,319	09-06-1983	Handa et al.	
		US-	4,545,367	10-08-1985	Tucci	
		US-	4,732,152	03-22-1988	Wallsten et al.	
		US-	5,002,556	03-26-1991	Ishida et al.	
		US-	5,109,867	05-05-1992	Twyford, Jr.	
		US-	5,261,916	11-16-1993	Engelson	
		US-	5,341,818	08-30-1994	Abrams et al.	
		US-	5,562,698	10-08-1996	Parker	
		US-	5,645,564	07-08-1997	Northrup et al.	
		US-	5,695,111	12-09-1997	Nanis et al.	
		US-	5,733,294	03-31-1998	Forber et al.	
		US-	5,766,160	06-1998	Samson et al.	
		US-	5,944,733	08-31-1999	Engelson	
		US-	6,102,932	08-2000	Kurz	
		US-	6,168,570	06-1998	Samson et al.	
		US-	6,224,610	05-2001	Ferrera	
		US-				
	US-					
	US-					

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind ⁵ (if known)				
18		EP	0 358 767 A1		03-21-1990			

Examiner Signature		Date Considered	8/22/05
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/731,631
		Filing Date	Dec. 8, 2003
		First Named Inventor	Daniel R. Kurz
		Group Art Unit	3731
Examiner Name	Yuen T. Ho		
Attorney Docket Number	MICRU 66414		
Sheet 10	of 10		

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document No.		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if Known)			
DA		5,609,608		BENETT ET AL.		

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		Office	Number	Kind Code (if Known)				
DA		PCT	WO 97/01368		Trimedyn, Inc.	01/16/97		
		PCT	WO 98/02100		Anson Medical Limited	01/22/98		
		PCT	WO 99/32037		Boston Scientific Limited	07/01/99		
		EP	0 941 700 A1		Cordis Corporation	09/15/99		
DA		PCT	WO 00/12015		Micrus Corporation	03/03/00		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), file of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T

Examiner Signature	<i>Yuen T. Ho</i>	Date Considered	4/22/15
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